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TITLE: MANUFACTURE OF METAL POWDER SINTERED
COMPACT

PUBN-DATE: July 12, 1991`

INVENTOR-INFORMATION:

NAME

UNNO, MASAhide

ASSIGNEE-INFORMATION:

NAME

SUMITOMO METAL IND LTD

COUNTRY

N/A

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INT-CL (IPC): B22F003/26, B22F003/04 , C22C001/04

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ABSTRACT:

PURPOSE: To manufacture alloy raw material for compacted projectile having drastically excellent penetration depth more than Cu with good yield of the material by packing the specific metal powder into space between a rubber mold and a core of metallic mold and infiltrating Cu or Cu alloy after compacting with cold isostatic pressing.

CONSTITUTION: After packing mixed material of fine powder having 2 - 30 μm of the metal having excellent infiltrating depth of W, Ta, Re, etc., or

alloy of W-Cu, Ta-Cu, Re-Cu, etc., and binder of wax, etc.,
into a mold for
cold isostatic pressing composed of the rubber mold 2 made
of e.g., urethane
rubber having 5 - 25 mm thickness and metallic mold made of
steel material, the
cold isostatic press-compacting at 500 - 2000 kg
f/cm² pressure and
dewaxing treatment are executed. After sintering the green
compact, Cu-made
disk is laid on this and heated to infiltrate Cu, and the
alloy raw material
for compacted projectile having very excellent penetration
depth is obtd.

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